20 33 33 33 33 33 33 33) 				/ FU	ES DEC SW QUIVALENT EQUENCE: L + .DAT S NCTION ARGS, WHEI RMAL RETUI PARAMETERS	S/OSLO OF PP SLOT (RE N I RN S:	∨NORWAY A. PUNCH F 9-17) S A FUNCT!	ION OF "FU		Y. - 21	
39 39 40	3 9		**************************************	i e	/ ED	IT #2 FOR	XVM-D	OS MADE BY	Y H BERGKV	IST PEAB 7	70214	
4	3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000003 000070		APILVL=3 APISLT=70				ICHANNEL L JNUSED SLO			
4: 4: 4: 4: 4:	3 7		706161 706001 706006	A	FPSF=APILV SIOA=70600 LIOR=70600	1	0 1	/Sk	KIP ON DAT LEAR "DONE	A ACCEPTED " FLAG AND		
- 49 51) · .: · · · · · · · · · · · · · · · · ·		706164	A	CAPI=APILV	L*20+70610	04		LEAR FLAG	11.		
5 57 51	1 2 3		000100 000003 000137	A	.SCOM=100 .MED=3 EXERRS=.SC	OM+37 FUND NOSPI						
54 55 56	5		000006	A	DEVCOD=6	NDC		CODE FOR F	P DRIVER	IN PIREX		
51 58 59 60)				DEVCOD=206	FDEF NOSPI NDC LOBL PPF.		SAME DRIVI	ER. DISABL	E SPOOLING	İ	
60	3				.G	LOBE PPF.						

PAGE 2 PPF. HAN FPUII EDIT 002 FOR XVM

PAGE	3	"PPF." "HAN" CAI	ENTRANCE	
61 623 645 666 667 669 70	· · · · · · · · · · · · · · · · · · ·	00000 R 040417 R 00001 R 040420 R 00002 R 440420 R 00003 R 200451 R 00004 R 740200 A 00005 R 600011 R 00006 R 200421 R 00007 R 740200 A 00010 R 600006 R	PPF. DAC FPC DAC FPA ISZ FPA LAC DSTEST SZA JMP NEW LAC FPUND SZA JMP2	RGP AND ARGUMENT POINTER.
71 72			✓FIRST TIME THROUGH	SET UP THE TCB ETC
73 74 75 76 77		00011 R 600423 R	NEW JMP INI	FIRST TIME THRU DO SETUP CAL AND SET-UP TCB AND BUFFER. OVERWRITE JUMP WITH NO-OP
78 79 80 81 82 83		00012 R 220420 R 00013 R 440420 R 00014 R 500536 R 00015 R 340537 R 00016 R 040017 R 00017 R 740040 A	LAC* FPA ISZ FPA AND (17 TAD (JM DAC .+1	RGP /POINTS TO WORD 3 - BUFFER ADDRESS.
84 85 86 87 88 89		00020 R 600110 R 00021 R 741000 A 00022 R 600032 R 00023 R 440420 R 00024 R 600116 R 00025 R 600347 R	LTABL JMP FPI SKP JMP FPE ISZ FPA JMP FPN JMP FPC	/2FSTAT, .RENAM, .DLETE - IGNORE RØ6 /3SEEK - ERROR RGP /4ENTER - IGNORE EXT /5CLEAR - IGNORE
90 91 92 93 94 95		00026 R 600116 R 00027 R 600032 R 00030 R 600120 R 00031 R 600366 R 00032 R 760006 A 00033 R 600100 R	JMP FPN JMP FPE JMP FPW JMP FPW JMP FPW FPERØ6 LAW 6 JMP SETERR	EXT
96 97 98 99 100		00034 R 760012 A 00035 R 600100 R 00036 R 760055 A 00037 R 600100 R 00040 R 760067 A 00041 R 600100 R	IOPS12 LAW 12 JMP SETERR IOPS55 LAW 55 JMP SETERR IOPS67 LAW 67 JMP SETERR	/UC15 WENT AWAY EDIT #2 / EDIT #2 /NO TCB AREA FOR US EDIT #2 / EDIT #2 /ATTEMPT REF. >32K EDIT #2 / EDIT #2

```
PAGE 4 PPF. HAN INTERRUPT SERVICE
              .TITLE INTERRUPT SERVICE
102
103
         FPU. INTERRUPT SERVICE
129
130
138
138
139 00076 R 100407 R ŘETRY JMS FPSET
140 00077 R 600065 R JMP FPIRT1 /EXIT FROM INTERRUPT
141
142
```

PAGE	5	PPF. HAN	ERROR ROUTINE	
143			.TITLE RROR	ROUTINE
144				
145		00100 R 040107 1	R SETERR DAC ERRNUM	
146		00101 R 740000		/'JMP FPTRY' IF IOPS 4 ERROR.
147		00102 R 200107	R LAC ERRNUM	Total Allinois
148		00103 R 120547		
149		00104 R 600101		
150		00105 R 777777		
151		00106 R 062025		
152		00107 R 000000 I		HOLDS ERROR NUMBER FOR REPEAT.

PAGE 6 PPF. HAN .INIT	FUNCTION	
153 154 155 156 157 00110 R 440420 R FR 158 00111 R 200422 R 159 00112 R 060420 R 160 00113 R 440420 R 161 00114 R 100467 R 162 00115 R 600217 R 163 164 165	.TITLE .INIT FUNCTION .INIT PIN ISZ FPARGP LAC BUFSIZ DAC* FPARGP ISZ FPARGP JMS FPHEAD JMP MAIN4+2 NORMAL CAL EXIT PNEXT DBR JMP* FPARGP	√52 WORDS FOR STANDARD ✓RETURN TO USER. ✓NOW POINTS TO RETURN.

```
HAN
                                      .WRITE FUNCTION
                PPF.
PAGE
                                                      .TITLE TITLE FUNCTION
 168
 169
 170
                                           /.WRITE
                                        FPWRIT LAC* FPCALP /GET DATA MODE FROM USERS CAL.

AND (1000 /MAKE SKP-NOP IN MIX

XOR (SKP /SKP=ASCII NOP=IMAGE

DAC MIX

LAC* FPARGP /USER BUFFER ADDRESS.

ISZ FPARGP /NOW POINTS TO WORD COUNT

DAC TCHAR /SA/E POINTER TO BUFFER HEADER

AAC 2 /MAKE X12 POINT TO DATA NOT HEADER

AAC 2 /MAKE X12 POINT TO DATA NOT HEADER

DAC X12 /GETTER POINTER

AND (700000 /BUFFER >32K ? /EDIT #2

SZA / EDIT #2

JMP IOPS67 /YES. FATAL ERROR /EDIT #2

DZM FPLNST /START OF NEW BUFFER INDICATOR AND CHAR COUNT

DZM FPBYTE /CHAR-BYTE INDICATOR

DZM FPWORD /CHAR-WORD INDICATOR

DZM EOLINE /END OF LINE INDICATOR
 171
               00120 R 220417 R
 172
 173
               00121 R 500550 R
               00122 R 240551 R
 174
 175
               00123 R 040440 R
               00124 R 220420 R
00125 R 440420 R
00126 R 040441 R
00127 R 723002 A
 176
 177
 178
 179
               00130 R 040431 R
00131 R 500552 R
 180
 181
               00132 R 740200 A
 182
 183
               00133 R 600040 R
            00134 R 140443 R
00135 R 140447 R
 184
 185
 186
                00136 R:140450 R
                                                                ZEND OF LINE INDICATOR
 187
                00137 R 140455 R
                                              DZM EOLINE
 188
                                           ✓ SET UP LIMIT OF INPUT BUFFER SIZE TO PREVENT DATA OVERRUN
 189
                                           FOR BOTH IOPS ASCII AND IMAGE ASCII
 190
 191
             00140 R 777000 A
                                                     LAW
                                                                           YGET PAIR COUNT FROM LEFT HALF
 192
                                                                17000
               00141 R 520441 R
 193
                                                     AND*
                                                                TCHAR
                                                SWHA
 194
                00142 R 742030 A
                                                                           BRING TO RIGHT. PAIR COUNT INCLUDES HEADER
                                         PAI
OK.
XCT MIX /SKP
SKP /FOR IMAGE MODE
SKP!CMA!IAC
 195
                                                                           /PAIR COUNT. WE ISZ BEFORE LOOP SO THAT'S
                                                                           VOK. IOPS NOW SET XCPT CMA! IAC
 196
                00143 R 400440 R
                                                                           /SKP IF ASCII, NOP IF IMAGE
 197
               00144 R 741000 A
 198
                                                                           /IOPS COMPLEMENTED TO CORRECT VALUE
 199
         00145 R 741031 A
                                                  JMS MAKEIM /MAKE COUNT FOR IMAGE
 200
                00146 R 100530 R
                                                                           TWO WORDS FOR HEADER. WE ISZ BEFORE LOOP.
 201
                                                 DAC
ISZ
 202
                                                                INIT
                                                                           ✓INTO CONTROLLER, BOTH MODES
               00147 R 040423 R
 203
                                                                FPARGP /MOVE ARG POINTER TO EXIT
                00150 R 440420 R
 204
                00151 R 200317 R
                                                     LAC
                                                                GETIN
                                                                           /INIT. CHAR GETTER
 205
                00152 R 040312 R
                                                     DAC
                                                                GETSW
 206
                                           ✓ MAIN LOOP TO TRANSFER CHAR'S TO HANDLER BUFFER
 207
 208
 209 00153 R 100300 R
                                           MAIN
                                                                GETCH /CHARACTER GETTER, LEAVES IT IN AC
                                                     JMS
                                          DAC TCHAR
               00154 R 040441 R
 210
                                            XCT MIX /ASCII OR IMAGE
JMP MAIN1+1 /IMAGE MODE
 211
               00155 R 400440 R
               00156 R 600211 R
 212
               00157 R 200443 R
00160 R 740200 A
00161 R 600173 R
                                              LAC FPLNST
 213
                                                              ✓ASCII MODE
                                               SZA
 214
                                               JMP MAIN5
 215
 216
                00162 R 200441 R
                                            LAC TCHAR
               00163 R 540553 R
 217
                                            SAD (12
                                           JMP LFCODE
               00164 R 600221 R
 218
               00165 R 540554 R
                                              SAD (13
 219
```

```
.WRITE FUNCTION
PAGE
                      PPF.
                                    HAN
 220
 221
 222
 223
 225
 226
 227
 228
 229
 230
 231
 232
233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
                                                    LFCODE LAC (12
JMS PUTCH
JMP MAIN

VTCODE LAC (213
JMS PUTCH
LAW -4
DAC PARSAV
LAC (377
JMS PUTCH
ISZ PARSAV
JMP .-3
JMP MAIN

FFCODE LAC (14
 248
              00221 R 200553 R
00222 R 100253 R
00223 R 600153 R
00224 R 200561 R
00225 R 100253 R
00226 R 777774 A
00227 R 040452 R
00230 R 200562 R
00231 R 100253 R
 249
 250
 251
 252
 253
 254
 255
 256
 257
                     00232 R 440452 R
00233 R 600230 R
 258
 259
                    00233 R 600230 R
00234 R 600153 R
00235 R 200555 R
00236 R 100253 R
00237 R 777740 A
00240 R 040452 R
00241 R 750000 A
00242 R 100253 R
00243 R 440452 R
00244 R 600241 R
00244 R 600153 R
00245 R 600153 R
 260
                                                     FFCODE LAC (14
JMS PUTCH
LAW -40
DAC PARSAV
CLA
 261
 262
263
 264
 265
                                                     JMS PUTCH
ISZ PARSAV
JMP .-3
JMP MAIN
                                                              JMS PUTCH
 266
 267
 268
                    00246 R 200560 R
00247 R 100253 R
                                                      TABCOD LAC (11
JMS PUTCH
```

```
9 PPF.
                     HAN
                              .WRITE FUNCTION
PAGE
             00250 R 200562 R
272
             00251 R 100253 R
 273
                                     JMS PUTCH
274
             00252 R 600153 R
                                     JMP MAIN
275
276
277
278
279
            00253 R 000000 A
                                  PUTCH 0
            00254 R 440443 R
                                     ISZ FPLNST
            00255 R 040446 R
                                     DAC PUTSAV
280
            00256 R 200447 R
00257 R 240563 R
                                     LAC FPBYTE
 281
282
283
                                     XOR (1
            00260 R 040447 R
00261 R 740200 A
                                     DAC FPBYTE
284
285
                                     SZA
            00262 R 600267 R
00263 R 200446 R
                                     JMP PUTBOT
286
                                     LAC PUTSAV
287
             00264 R 742030 A
                                     SWHA
            00265 R 744020 A
                                     RCR
288
            00266 R 600275 R
00267 R 200436 R
00270 R 340450 R
289
                                     JMP PUTTOP
                                  PUTBOT LAC FPBUFD
 290
291
                                     TAD FPWORD
            00271 R 040445 R
                                     DAC PUTADD
 292
293
294
295
            00272 R 440450 R
                                     ISZ FPWORÐ
            00273 R 160445 R
                                     DZM* PUTADD
             00274 R 200446 R
                                     LAC PUTSAV
296
             00275 R 260445 R
                               PUTTOP XOR* PUTADD
            00276 R 060445 R
297
                                  DAC* PUTADD
 298
             00277 R 620253 R
                                     JMP* PUTCH
299
                                           CHARACTER UNPACKING ROUTINE
 300
 301
                                     THIS ROUTINE 'OWNS' THE MQ
 302
303
 304
 305
                                  CHARACTERS ARE OBTAINED FROM X12 POINTER. EACH CHAR
                                  / IS RETURNED RIGHT JUSTIFIED IN THE AC
 306
                                  / INIT HAS A MINUS COUNT OF THE WORDS TO BE OBTAINED
 307
308
                                  / FROM THE INPUT POINTER X12
 309
                                  GETCH
310
            00300 R 000000 A
            00301 R 400440 R
                                          XCT
                                                   MIX
                                                            /SKIP IF IT IS ASCII, NOP IF IMAGE
311
312
             00302 R 741000 A
                                           SKP
            00303 R 620312 R
                                         JMP*
                                                   GETSW
313
                                                            VGETSW IS POINTER TO CORRECT ACTION ON ONTHE
314
                                                            CORRECT ONE OF THE FIVE POSSIBLE CHAR'S
315
                                  / NOW DO IMAGE MODE
316
317
            00304 R 440423 R
318
                                           ISZ
                                                    INIT
             00305 R 741000 A
                                           SKP
                                                            /SKP ON NOT THRU YET
 319
                                       JMP
LAC∗
                                                   MAIN4
 320
             00306 R 600215 R
                                                            /DONE
                                                   X12
 321
             00307 R 220431 R
                                         ISZ
                                                   X12
             00310 R 440431 R
 322
             00311 R 600313 R
                                         JMP
                                                   GETCM /FINISH UP IN COMMON
 323
```

AGE 10	PPF. H	IAN .WRI	TE FUNCTIO	NC		
326 327 (328 (329 (00312 R 0 00313 R 4 00314 R 7 00315 R 5 00316 R 6	000000 A 0 100440 R 0 741000 A 500564 R 520300 R	/ CETCM V	от . №	410	POINTER TO CORRECT ACTION. INIT'ED FROM GETIN FILLED BY JMS GETSW AFTER EACH CHAR COMMON FINISH UP, STRIP XTRA BITS DOES THIS I DOES THIS OUT
331 332 333	00317 R 0	000321 R (GETIN GI	ET1		/INIT GETSW TO POINT TO FIRST CHAR ACTION
334 335			INDIVII	DULA CHA	RACTER	ACTION
/ 336	00320 R 1	100312 R		MS (ETSW	AFTER 5TH CHAR, POINT BACK TO FIRST
339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 355 356	00321 R 4 00322 R 6 00322 R 6 00323 R 6 00325 R 6 00326 R 6 00331 R 6 003331 R 6 003332 R 6 003334 R 6 003341 R 6 003341 R 6 00344 R 6 00344 R 6 00344 R 6	440423 R 600324 R 600324 R 600215 R 440431 R 640607 A 640607 A 640607 A 640607 A 640604 A 640604 A 640604 A 640604 A 640604 A 640604 A 640607 A 640607 A 640607 A 640607 A 640607 A 640607 A	GET1 IS JN JN L6 IS L7 L7 GET2 LI GET3 LI L6 IS L6 IS L7 L7 L7 L8	AC*	MAIN4 (12 (12 GETSW 4 GETSW (12 (12 (12 GETSW GETSW GETSW GETSW GETSW	CONTINUE IF OK FIRST WORD OF PAIR INTO MQ FOR SHIFTING DONE, LEAVE POINTER FOR SECOND CHAR SECOND CHAR LEAVING POINTER FOR THIRD THE HALF-AND-HALF CHAR VERY TEMPORARY CAN'T END IN MIDDLE OF PAIR SECOND WORD TO SHIFTER BRING BACK FIRST COMPLETE CHAR LEAVING POINTER TO FOURTH ACTION LEAVING FOR 5 BACK TO TOP FOR POINTER TO 1

PAGE	11	PPF.	HAN	CLOSE FUNCTION TO THE REPORT OF THE PROPERTY O
365				.TITLE .CLOSE FUNCTION
366				
367				
368				/.CLOSE
369				7.00002
370		00747 0	440353 F	FPCLOS ISZ FPCLSW /7777777 IN AC IF NOT THRU CLOSE CODE
371			600354 F	
			703344 F	
372	or Grand			
373			8 620417 F	
374			777777 6	
375			777777 6	
376			040353 F	
377		00356 K	₹100467 F	
378				. IFDEF_NOSPL
379				JMP ATLAST
380				.ENDC
381			R 100407 F	
382		00360 R	200421 R	
383			≀ 740200 A	
384		00362 R	≀ 600360 F	
385		00363 R	200565 R	
386		00364 R	060442 F	DAC* FPBUF
387		00365 R	8 600217 F	R ATLAST JMP MAIN4+2

PAGE	12	PPF. HAN	.WAIT FUNCT	'ION'	
388		2	,	.TITLE .WAIT FU	UNCTION TELESCOPE AND ADMINISTRATION OF THE PROPERTY OF THE PR
389 390				OR .WAITR	
391 3933 394 395 3997 3990 401 403 404 406 408 409		00366 R 220417 00367 R 500550 00370 R 741200 00371 R 600406 00372 R 220420 00373 R 500552 00374 R 740200 00375 R 600040 00376 R 200552 00377 R 500417 00400 R 040417 00401 R 220420 00402 R 500566 00403 R 240417 00404 R 040417 00405 R 600116	R A R R R R R R R R R R R R R R R R R R	LAC* FPCALP AND (1000 SNA JMP FPWAT1 LAC* FPARGP AND (700000 SZA JMP IOPS67 LAC (700000 AND FPCALP DAC FPCALP LAC* FPARGP AND (77777 XOR FPCALP DAC FPCALP DAC FPCALP LAC* FPCALP TSZ FPARGP JMP FPNEXT	/CHECK 32K LIMIT EDIT #2 /SKIP IF OK EDIT #2 / EDIT #2 / EDIT #2 / LINK, ETC.
410 411			/ / SETUP	AND OUTPUT TO P	PRINTER.
412 413 414 415 416 417 418 420		00407 R 000000 00410 R 160435 00411 R 200424 00412 R 706001 00413 R 600412	A FPSET R DZM* R A R	Я	SEND TCB POINTER TO PDP-11 MAKE SURE ITS ABLE TO GET IT NOTE THAT THIS IS PROTECTED SINCE THE LIOR WILL BE ISSUED DIRECTLY AFTER THE SIOA (FREE INSTRUCTION).
421 422		00415 R 040421 00416 R 620407	R	DAC FPUND JMP* FPSET	/SET I/O BUSY FLAG.

```
PAGE 13 PPF. HAN INITIALIZATION CODE AND TEMPORARIES
                                              TITLE NITIALIZATION CODE AND TEMPORARIES
 423
 424
                                      FPCALP 0 /POINTER TO CAL ADDR
FPARGP 0 /POINTER ARGUMENTS OF CAL
FPUND -6 /0=FREE, +=BUSY, -=ERROR
BUFSIZ 64 /STANDARD BUFFER SIZE IS 52 DECIMAL
              00417 R 000000 A
 425
              00420 R 000000 A
 426
 427
              00421 R 777772 A
              00422 R 000064 A
 428
                                                                 COUNTS UP TO INITAL @ BELOW
 429
 430
                                   INIT LAC
          00423 R 200541 R
00424 R 040011 R
                                                     (NOP /WRITE OVER JUMP TO HERE
 431
                                      FPTCB
                                             DAC
                                                      NEW /PREVENT RE-ENTRY
 432
 433
                                      NOW SET UP POINTERS TO BUFFER AND TCB LOC'S
 434
 435
 436 00425 R 220567 R
                                      FPAC
                                               LAC* (.SCOM+100 /POINTER TO TABLE OF POINTERS
       00426 R 741200 A
                                                SNA /IF ISN'T ONE, UC15 GONE
                                                                                                  EDIT #2
 437
                                             JMP IOPS12 /
AAC 6 /OUR POINTER IN
DAC INIT
LAC* INIT /POINTER TO TCB
        00427 R 600034 R
00430 R 723006 A
 438
                                                                                                         EDIT #2
                                                                 OUR POINTER IN TABLE +6
                                      FPOUT
 439
                                                                                                         EDIT #2
              00431 R 040423 R
                                      X12
 440
441 00432 R 220423 R
442 00433 R 741300 A
443 00434 R 2000 A
                                      PUTP
                                    SNA!SPA /IS THERE

JMP IOPS55

FPEV DAC FPTCB /POINTER TO TCB
                                                                                               EDIT #2
EDIT #2
                                                                 ✓IS THERE A TCB FOR US
       00434 R 600036 R
00435 R 040424 R
 443
 444
          00435 R 040424 R
00436 R 040423 R
00437 R 723002 A
00440 R 040435 R
00441 R 723002 A
00442 R 040437 R
                                      FPBUFD DAC INIT / POINTER TO INTERNAL BUFFER
 445
 446
                                      TABC AAC 2
                                      MIX DAC FPEV
 447
                                      TCHAR
                                              AAC 2
 448
                                      FPBUF
                                                DAC TABC
 449
           00443 R 723005 A
                                      FPLNST
                                                AAC 5
 450
                                                DAC FPBUFD
 451
           00444 R 040436 R
                                      FPLNDN
 452
                                      ✓ MAKE TCB
 453
 454
              00445 R 200570 R
                                      PUTADD
                                                LAC (APISLT*400+APILVL
 455
                                      PUTSAV DAC* INFPBYTE ISZ INIT
                                               DAC* INIT
 456
           00446 R 060423 R
             00447 R 440423 R
00450 R 200571 R
 457
                                      FPWORD LAC (DEVCOD /PIREX CODE FOR FP DRIVER DSTEST DAC* INIT
 458
             00451 R 060423 R
00452 R 440423 R
00453 R 160423 R
 459
                                      PARSAV ISZ INIT
PARCNT DZM* INIT
                                                                 ZERO THRU FIRST BUFFER LOC
 460
 461
           00454 R 440421 R
00455 R 600452 R
                                     PARIND ISZ FPUND
 462
                                    EOLINE JMP .-3
 463
                                    LAC INIT /ADDRESS OF PIREX BUFFER START

DAC* TABC /TO THE TCB WORD

DAC FPBUF /AND A POINTER FOR US LADS

CAL APISLT /ISSUE SETUP CAL TO ESTABLISH INTERRUPTS
          00456 R 200423 R
00457 R 060437 R
00460 R 040442 R
 464
 465
 466
         00461 R 000070 A
 467
                                    16
FPSF
FPINT
DZM DSTEST
JMP NEW
             00462 R 000016 A
00463 R 706161 A
 468
 469
             00464 R 000042 R
 470
              00465 R 140451 R
 471
             00466 R 600011 R
                                                                /WHEW, DONE
 472
          00467 R 000000 A FPHEAD 0
00470 R 200572 R LAC (212
 473
 474
```

```
PPF.
                                                    INITIALIZATION CODE AND TEMPORARIES
PAGE 14
                      00471 R 060442 R
                                                                DAC* FPBUF
 475
                     00472 R 744020 A
                                                                RCR
 476
                     00473 R 740031 A
00474 R 040446 R
00475 R 200436 R
                                                                TCA
 477
                                                                DAC PUTSAV
 478
                                                               LAC FPBUFD
 479
                     00475 R 200436 R
00476 R 040445 R
00477 R 160445 R
00500 R 440445 R
00501 R 440446 R
00502 R 600477 R
                                                                DAC PUTADD
 480
                                                               DZM* PUTADD
ISZ PUTADD
 481
 482
                                                              ISZ PUTSAV
 483
                                                                JMP .-3
 484
                     00503 R 620467 R
                                                                JMP* FPHEAD
 485
 486
                                                           PARITY XX
                      00504 R 740040 A
 487
               00504 R 740040 H
00505 R 040452 R
00506 R 777771 A
00507 R 040453 R
00510 R 140454 R
00511 R 200452 R
00512 R 744020 A
00513 R 741400 A
00514 R 440454 R
00516 R 600512 R
00515 R 240454 R
00516 R 600512 R
00517 R 200454 R
00516 R 600563 R
00521 R 741200 A
00522 R 600526 R
00523 R 200452 R
00524 R 240567 R
00525 R 741000 A
00526 R 200452 R
00527 R 620545 R
00527 R 620545 R
00531 R 723777 A
00532 R 744010 A
00533 R 744030 A
00533 R 744030 A
                                                           DAC PARSAV
                      00505 R 040452 R
 488
                                                                LAW -7
 489
                                                                DAC PARCHT
 490
                                                                DZM PARIND
 491
                                                               LAC PARSAV
 492
                                                           PARLOP RCR
 493
                                                                SZL
 494
                                                                ISZ PARIND
 495
                                                               ISZ PARCNT
 496
                                                                JMP PARLOP
 497
                                                                LAC PARIND
 498
                                                                AND (1
 499
                                                                SNA
 500
                                                                JMP PAREND
 501
                                                                LAC PARSAV
 502
                                                                XOR (200
 503
                                                                SKP
 504
                                                           PAREND LAC PARSAV
 505
                                                                AAC -1 /SUBTRACT HEADER WORD PAIR COUNT
RCL /MAKE TRUE COUNT
IAC /ADD ON 1 TO COMPENSATE FOR ISZ
TCA /AND NEGATE IT
JMP* MAKEIM
.END
                                                            JMP* PARITY
 506
                                                           MAKEIM 0
 507
                                                           AAC -1
 508
 509
 510
 511
                      00535 R 620530 R
 512
                                                                    END
                                    000000 A
 513
                     00536 R 017777 A *L
00537 R 600017 R *L
00540 R 600052 R *L
                      00541 R 740000 A *L
                     00541 R 740000 H *L
00542 R 000000 A *L
00543 R 700042 A *L
00544 R 177777 A *L
00545 R 177001 A *L
                      00546 R 600000 A *L
00547 R 000137 A *L
                      00550 R 001000 A *L
                      00551 R 741000 A *L
                      00552 R 700000 A *L
```

```
PAGE 15 PPF. HAN INITIALIZATION CODE AND TEMPORARIES

00553 R 000012 A *L
00554 R 000013 A *L
00555 R 000014 A *L
00556 R 000015 A *L
00557 R 000175 A *L
00560 R 000011 A *L
00561 R 000213 A *L
00562 R 000377 A *L
00563 R 000001 A *L
00564 R 000177 A *L
00565 R 177404 A *L
00566 R 077777 A *L
00567 R 000200 A *L
00570 R 034003 A *L
00571 R 000006 A *L
00572 R 000212 A *L
```

SIZE=00573 NO ERROR LINES

PAGE 16 PPF	cross	REFERENCE								
APILVL 000003 APISLT 000070 ATLAST 00365 BUFSIZ 00422		5 49 5 467 7* 8*	455						and National National	
CAPI 706164 DEVCOD 000006 DSTEST 00451	49* 11 55* 5									
EOLINE 00455 ERLOOP 00101	187 22 146* 14 148*	7 229	240	463×			To Ellina			
EROUT 00103 ERRNUM 00107 EXERRS 000137	145 14 53* 14	18								
FFCODE 00235 FPAC 00425 FPARGP 00420	106 11 63 6 167 17	4 78 6 177	436 * 79 203	87 396	157 403	159 407	160 426*			
FPBUF 00442 FPBUFD 00436 FPBYTE 00447	185 28	15* 451 1 283	466 479 457*	475	400	405	400			
FPCALP 00417	62 17 425*	2 373	392	401	402	405	406	en e		
FPCALX 00351 FPCLDN 00354 FPCLOS 00347 FPCLSW 00353 FPER06 00032	89 37 370 37	5* 0* 4* 376 1 94*			-		1 1 1			
FPEV 00435 FPHEAD 00467 FPICM 00056 FPIERR 00071	120 41 161 37 112 11	4 444*	447 485		1					
FPIN 00110 FPINT 00042 FPIRT 00064		7ж	470							
FPIRT1 00065 FPISW 00066 FPLNDN 00444	125* 14	0 6*								
FPLNST 00443 FPNEXT 00116 FPOUT 00430	184 21 88 9 108 11	0 166* 6 128	279 246 439*	450 * 408			4 4			
FPPIC 00052 FPSET 00407 FPSF 706161	105 10 139 24 45* 46	5 381 9	413*	422						
FPTCB 00424 FPUND 00421 FPWAIT 00366 FPWAT1 00406	68 12 93 39	2* 444 4 382 2* 8*	421	427*	462					
FPWORD 00450 FPWRIT 00120	186 29		458 *							
GETCH 00300 GETCM 00313 GETIN 00317	209 31 323 32 204 33	0* 330 7* 2*								
GETQ 00320 GETSW 00312	336* 35 205 31	9 3 325*	336	345	347	349	353			

CDOCC DEFEDENCE

PAGE 17	PPF. CR	OSS REF	ERENCE	* .											
GET1 0032 GET2 0033 GET3 0033: GET4 0034: GET5 0034: INIT 0042:	1 346* 3 348* 3 356* 5 358* 7 74	357 338* 202	318	338	431*	440	441	445							
IOPS12 0003- IOPS55 0003- IOPS67 0004- LFCODE 0022 LIOR 70600- LTABL 0002-	98* 100* 1 218 6 47* 7 81	457 438 443 183 249* 420 84*	459 399	460	461	464									
MAIN 0015	274	231	233	235	242	251	260	269			* ** * **		t.	•	
MAIN1 00210 MAIN4 00215 MAIN5 0017	0 212 5 162	238* 243* 225*	320	340	387										
MAKEIM 00530 MIX 00440 NEW 0001 PARCNT 0045	0 175 1 67 3 461*	507* 197 74* 490	512 211 432 496	311 472	327	447*								* .	
PAREND 00520 PARIND 00450 PARITY 00500 PARLOP 00512	4 462* 4 238	505* 491 487* 497	495 506	498											
PARLOP 00517 PARSAV 00457		258	264	267	460 *	488	492	502	•.						
PPF. 00000 PUTADD 0044 PUTBOT 0026	0 60 5 292	62* 294 290*	296	297	455*	480	481	482		4.		•			
PUTCH 0025:	3 224 273	239 278*	250 298	253	257	262	266	271							
PUTP 00433 PUTSAV 00444 PUTTOP 0027	5 280 5 289	286 296*	295	456 *	478	483									
RETRY 00079 SETERR 00109 SIOA 70600	95	139* 97 416	99	101	135	145*									
TABC 00437	² 446*	449 270*	465												
TCHAR 0044 VTCODE 0022	l 178	193 252*	210	216	225	448*			÷					\$	
X12 0043	l 180	321	322	341	342	350	351	440 *							
CLOSE MACRO DLETE MACRO ENTER MACRO EXIT MACRO FSTAT MACRO GET MACRO GTBUF MACRO	365))))														

PAGE	18	PPF.	. CR	055	REFE:	RENCE
GVBUF INIT MED MTAPE MTRAN OVRLA PUT RAND READ RENAM	MAC MAC MAC MAC MAC MAC MAC MAC	RO Ø3 RO RO RO RO RO RO	153 52*	•		
.SCOM .SEEK .SETUP .SYSID .TIMER .TRAN .USER	MAC MAC MAC MAC MAC MAC	00 RO RO RO RO RO	51*	5	3	436
.WAIT	MAC	RO	388			
.WRITE .XVMOF .XVMON	MAC MAC MAC	RO RO	168			